



OAQ Process Information Application
PI-14: VOLATILE ORGANIC LIQUID COMPOUND STORAGE

State Form 52554 (2-06)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch
100 N. Senate Avenue, Indianapolis, IN 46204

Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.IN.gov/idem/air/permits/index.html

NOTES:

- The purpose of this form is to obtain detailed information about all tanks larger than 250 gallons that are used to store volatile organic liquid compounds. Duplicate this form as necessary.
- Detailed **instructions** for this form are available online at www.IN.gov/idem/air/permits/apps/instructions/pi14instructions.html.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any one to inspect and photocopy.

PART A: Tank Identification

Part A identifies and describes the tank. Duplicate this form as necessary to include all applicable tanks.

1. Tank/Unit ID:

2. Installation Date:
(actual or anticipated)

3. Tank Location:

4. Tank Type

☐ Fixed Roof, Cone

☐ External Floating Roof, Domed

☐ Internal Floating Roof

☐ Fixed Roof, Dome

☐ External Floating Roof, Not Domed

☐ Variable Vapor Space

☐ Other (specify):

☐ Pressure Tank

5. Is the tank Above Ground? ☐ Yes ☐ No

6. Tank Orientation: ☐ Horizontal ☐ Vertical

7. Tank Color:

8. Materials Stored: (include MSDS)

9. True Vapor Pressure (PVA): pounds per square inch (psi at 20°C)

10. Vapor Molecular Weight (Mv): gallons (b/lbmole)

11. Annual Throughput: gallons per year (gal/yr)

12. Venting Method:

13. Filling Method: ☐ Submerged ☐ Not Submerged ☐ Other (specify):

PART B: Emission Controls and Limitations

Part B identifies control technology, control techniques or other process limitations that impact air emissions.

14. Add-On Control Technology: Identify all control technologies used for this unit, and attach completed CE-01 (unless "none").

☐ None

☐ Other (specify):

— Attach CE-10.

15. Control Techniques: Identify all control techniques used for this process.

☐ None

☐ Flare

☐ Vapor Recovery System

☐ Other (specify):

— Attach GSD-09.

16. Process Limitations / Additional Information: Identify any acceptable process limitations. Attach additional information if necessary.

PART C: Information Specific to Tank Type

Part C identifies the physical properties of the tank.

17. Tank Diameter (D):	feet (ft)		
18. Tank Height (Hs):	feet (ft)		
19. Tank Volume / Capacity (V):	gallons (gal)	cubic feet (ft ³)	
20. Maximum Liquid Height (Hlx):	feet (ft)		
21. External Floating Roof: Complete only if applicable.			
a. Average Liquid Density (WI):	pounds per gallon (lb/gal)		
b. Roof Type:	<input type="checkbox"/> Pontoon Floating Roof <input type="checkbox"/> Double Deck Floating Roof		
c. Tank Construction:	<input type="checkbox"/> Welded <input type="checkbox"/> Riveted		
d. Primary Rim Seal:	<input type="checkbox"/> Vapor Mounted <input type="checkbox"/> Liquid Mounted <input type="checkbox"/> Mechanical Shoe		
e. Secondary Rim Seal:	<input type="checkbox"/> Weather Shield <input type="checkbox"/> Rim Mounted <input type="checkbox"/> None		
22. Internal Floating Roof: Complete only if applicable.			
a. Average Liquid Density (WI):	pounds per gallon (lb/gal)		
b. Roof Type	<input type="checkbox"/> Double Deck Floating Roof <input type="checkbox"/> Other: <u>(specify)</u>		
c. Self-supported fixed roof	<input type="checkbox"/> Yes <input type="checkbox"/> No		
d. Number of columns supporting the fixed roof			
e. Deck Construction:	<input type="checkbox"/> Welded <input type="checkbox"/> Riveted <input type="checkbox"/> Bolted		
f. Primary Rim Seal:	<input type="checkbox"/> Vapor Mounted <input type="checkbox"/> Liquid Mounted		
g. Is there a Secondary Rim Seal?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
23. Variable Vapor Space: Complete only if applicable.			
a. Volume of liquid pumped into the system (V1):	gallons per year (gal/yr)		
b. Volume expansion capacity of system (V2):	gallons (gal)		
c. Number of Transfers Into the System (N2)	per year (/yr)		

PART D: Emission Factors

Part D identifies all emission factors used to calculate air emissions from the storage tank.

24. Air Pollutant:	25. Emission Factor		26. Source of Emission Factor		
	value	units	(if not using AP-42, include calculations)		
Hazardous Air Pollutant (HAP): <i>(specify)</i> :			<input type="checkbox"/> AP-42	<input type="checkbox"/> Other	<input type="checkbox"/> N/A
Volatile Organic Compounds (VOC)			<input type="checkbox"/> AP-42	<input type="checkbox"/> Other	<input type="checkbox"/> N/A
Other <i>(specify)</i> :			<input type="checkbox"/> AP-42	<input type="checkbox"/> Other	
Other <i>(specify)</i> :			<input type="checkbox"/> AP-42	<input type="checkbox"/> Other	

PART E: Federal Rule Applicability

Part E identifies any federal rules that apply to the process.

27. Is a New Source Performance Standard (NSPS) applicable to this source? <i>If yes, attach a completed FED-01 for each rule that applies.</i>		<input type="checkbox"/> Yes <input type="checkbox"/> No	28. Unit ID:
<input type="checkbox"/> 40 CFR Part 60, Subpart K	Petroleum Liquid Storage Vessels (constructed after 6/11/1973 and before 5/19/1978)		
<input type="checkbox"/> 40 CFR Part 60, Subpart Ka	Petroleum Liquid Storage Vessels (constructed after 5/18/1978 and before 7/23/1984)		
<input type="checkbox"/> 40 CFR Part 60, Subpart Kb	Volatile Organic Liquid Storage Vessels, Including Petroleum Liquid Storage (constructed after 7/23/1984)		
<input type="checkbox"/> 40 CFR Part 60, Subpart VV	Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry		
<input type="checkbox"/> 40 CFR Part 60, Subpart GGG	Equipment Leaks of VOC in Petroleum Refineries		
<input type="checkbox"/> 40 CFR Part 60, Subpart KKK	Equipment Leaks of VOC from On-Shore Natural Gas Processing Plants		
29. Is a National Emission Standard for Hazardous Air Pollutants (NESHAP) applicable to this source? <i>If yes, attach a completed FED-01 for each rule that applies.</i>		<input type="checkbox"/> Yes <input type="checkbox"/> No	30. Unit ID:
<input type="checkbox"/> 40 CFR Part 61, Subpart J	Equipment Leaks (Fugitive Emission Sources) of Benzene		
<input type="checkbox"/> 40 CFR Part 61, Subpart V	Equipment Leaks (Fugitive Emission Sources)		
<input type="checkbox"/> 40 CFR Part 61, Subpart Y	Benzene Emissions from Benzene Storage Vessels		
<input type="checkbox"/> 40 CFR Part 63, Subpart R	Gasoline Distribution (Bulk Gasoline Terminals and Pipeline Breakout Stations)		
<input type="checkbox"/> 40 CFR Part 63, Subpart CC	Petroleum Refineries		
<input type="checkbox"/> 40 CFR Part 63, Subpart HHH	Natural Gas Transmission and Storage		
<input type="checkbox"/> 40 CFR Part 63, Subpart EEEE	Organic Liquids Distribution (non-gasoline)		
31. Non-Applicability Determination: <i>Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.</i>			

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